

# TECHNICAL REPORT



Report No.: TW2101004-01E

File Reference No.: 2021-01-14

Applicant: HANGZHOU ZT MODEL CO., LTD.

Product: "Sky Cub" 2.4GHz RC Plane

Model No.: XA04701, XA04702

Brand Name: N/A

Test Standards: FCC Part 15.249

## Test Result:

It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10&FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation of electromagnetic compatibility



Dated: January 14, 2021

**Results appearing herein relate only to the sample tested  
The technical reports is issued errors and omissions exempt and is subject to withdrawal at**

**SHENZHEN TIMEWAY TESTING LABORATORIES**

**Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West,  
Tong Le Village, Nanshan District, Shenzhen, China**

**Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com**



## Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

### **CNAS-LAB Code: L2292**

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

### **FCC-Registration No.: 744189**

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

### **Industry Canada (IC) —Registration No.:5205A**

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

### **A2LA (Certification Number:5013.01)**

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

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## Test Report Conclusion

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## 1.0 General Details

### 1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TESTING LABORATORIES.  
Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China  
Telephone: (755) 83448688  
Fax: (755) 83442996  
Site on File with the Federal Communications Commission – United States  
Registration Number: 744189  
For 3m Anechoic Chamber

### 1.2 Applicant Details

Applicant: HANGZHOU ZT MODEL CO.,LTD.  
Address: NO.6 MINGDE RD,BINJIANG DISTRICT, HANGZHOU, ZHEJIANG PROVINCE,CHINA  
Telephone: 15888838782  
Fax: --

### 1.3 Description of EUT

Product: "Sky Cub" 2.4GHz RC Plane  
Manufacturer: HANGZHOU ZT MODEL CO.,LTD.  
Address: NO.6 MINGDE RD,BINJIANG DISTRICT, HANGZHOU, ZHEJIANG PROVINCE,CHINA  
Brand Name: Ihome  
Model Number: XA04701  
Additional Model Name XA04702  
Hardware Version: V1.0  
Software Version: V34  
Serial No.: 6949936112712  
Input Voltage: DC6V, 4 pcs AA batteries  
Modulation Type: GFSK  
Operation Frequency: 2402-2479MHz  
Channel Separation: 1MHz  
Channel Number: 78  
Antenna Designation: Dipole antenna with gain 0dBi Max (Declared by the applicant)

### 1.4 Submitted Sample

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2 Samples

1.5 Test Duration

2021-01-04 to 2021-01-14

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty =5%

Conducted Emissions Uncertainty =3.6dB

Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

The sample tested by



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## 2.0 Test Equipment

Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2020-06-23	2021-06-22
LISN	R&S	EZH3-Z5	100294	2020-06-23	2021-06-22
LISN	R&S	EZH3-Z5	100253	2020-06-23	2021-06-22
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2020-06-23	2021-06-22
Loop Antenna	EMCO	6507	00078608	2018-06-25	2021-06-24
Spectrum	R&S	FSIQ26	100292	2020-06-23	2021-06-22
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2020-06-23	2021-06-22
Horn Antenna	R&S	BBHA 9120D	9120D-631	2018-07-09	2021-07-08
Power meter	Anritsu	ML2487A	6K00003613	2020-06-23	2021-06-22
Power sensor	Anritsu	MA2491A	32263	2020-06-23	2021-06-22
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2018-07-04	2021-07-03
9*6*6 Anechoic	--	--	N/A	2018-02-07	2021-02-06
EMI Test Receiver	RS	ESVB	826156/011	2020-06-23	2021-06-22
EMI Test Receiver	RS	ESH3	860904/006	2020-06-23	2021-06-22
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2020-06-23	2021-06-22
Spectrum	HP/Agilent	E4407B	MY50441392	2020-06-23	2021-06-22
Spectrum	RS	FSP	1164.4391.38	2020-01-16	2021-01-15
RF Cable	Zhengdi	ZT26-NJ-NJ-8 M/FA	--	2020-06-23	2021-06-22
RF Cable	Zhengdi	7m	--	2020-06-23	2021-06-22
RF Switch	EM	EMSW18	060391	2020-06-23	2021-06-22
Pre-Amplifier	Schwarebeck	BBV9743	#218	2020-06-23	2021-06-22
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2020-06-23	2021-06-22
LISN	SCHAFFNER	NNB42	00012	2021-01-06	2022-01-05

## 2.2 Automation Test Software

For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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### 3.0 Technical Details

#### 3.1 Summary of test results

The EUT has been tested according to the following specifications:			
Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.207	Conducted Emission Test	N/A	Complies
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	PASS	Complies
FCC Part 15, Paragraph 15.209 and RSS-210	Radiated Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	PASS	Complies

#### 3.2 Test Standards

FCC Part 15 Subpart C, Paragraph 15.249 , ANSI C63.4 :2014 and ANSI C63.10 :2013

#### 4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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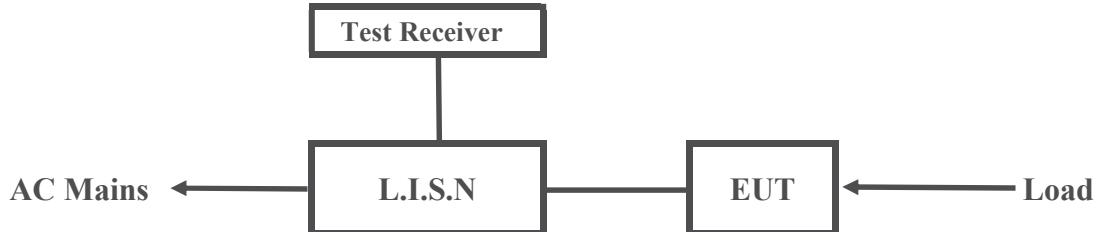
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## 5. Power Line Conducted Emission Test

### 5.1 Schematics of the test

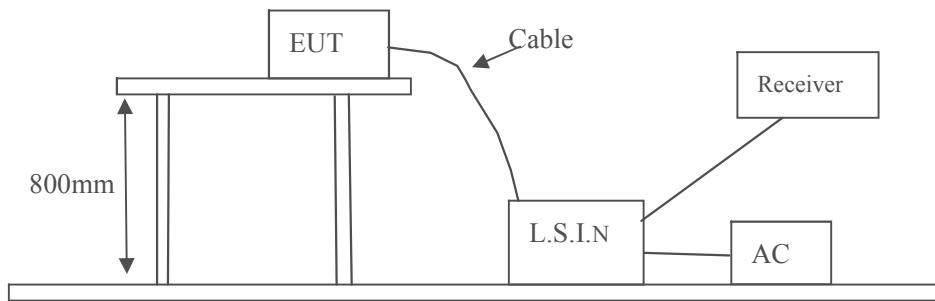


EUT: Equipment Under Test

### 5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2014. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2014.

### Block diagram of Test setup



### 5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2014. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

One channels are provided to the EUT

#### A. EUT

Device	Manufacturer	Model	FCC ID
"Sky Cub" 2.4GHz RC Plane	HANGZHOU ZT MODEL CO., LTD.	XA04701, XA04702	OJPXA04701

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B. Internal Device

Device	Manufacturer	Model	FCC ID/SDOC
N/A			

C. Peripherals

Device	Manufacturer	Model	Rating
--			

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2014

A Setup the EUT and simulators as shown on follow  
B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency(MHz)	Limits (dB $\mu$ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	56.0	46.0
5.00 ~ 30.00	60.0	50.0

Notes: 1. \*Decreasing linearly with logarithm of frequency.  
2. The tighter limit shall apply at the transition frequencies

5.6 Test Results:

N/A

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

**Note: EUT powered by AA battery, this test item not applicable.**

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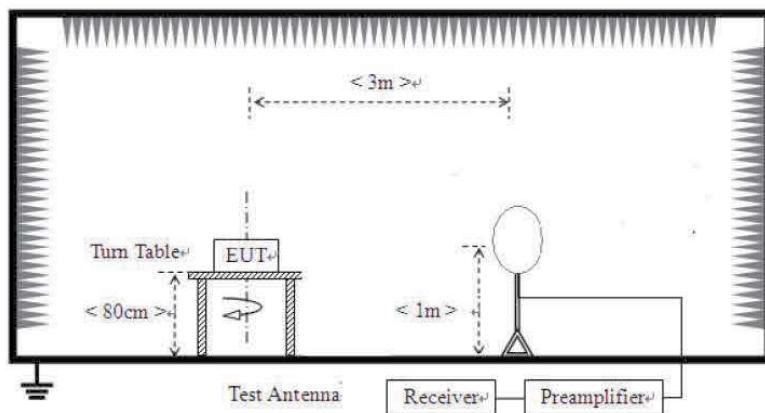
## 6 Radiated Emission Test

### 6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz (Note: for Fundamental frequency radiated emission measurement, RBW=3MHz, VBW=10MHz). Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.

#### Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



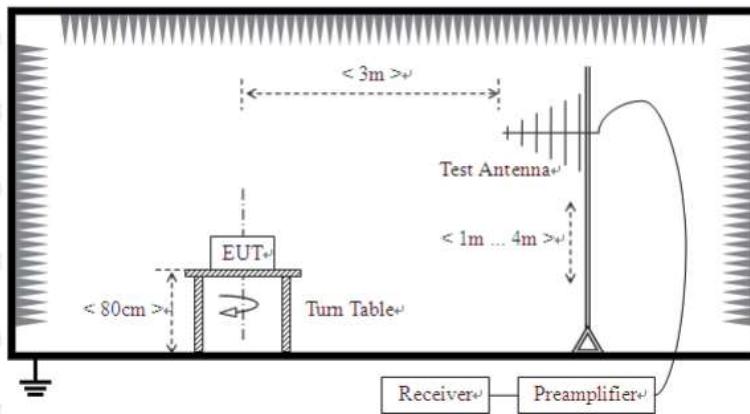
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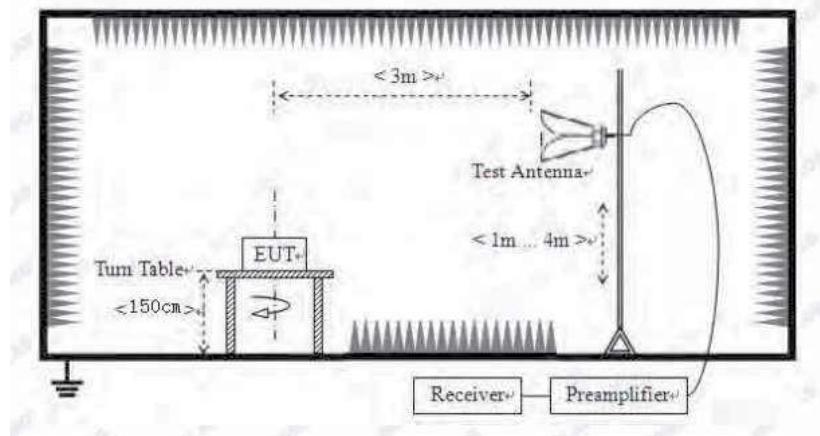
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For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



## 6.2 Configuration of The EUT

Same as section 5.3 of this report

## 6.3 EUT Operating Condition

Same as section 5.4 of this report.

## 6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

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#### A FCC Part 15 Subpart C Paragraph 15.249(a) Limit

Fundamental Frequency (MHz)	Field Strength of Fundamental (3m)		Field Strength of Harmonics (3m)	
	mV/m	dBuV/m	uV/m	dBuV/m
2400-2483.5	50	94 (Average) 114 (Peak)	500	54 (Average) 74 (Peak)

Note:

1. RF Field Strength (dBuV) = 20 log RF Voltage (uV)
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

#### B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
4. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz. As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.
5. For radiated emissions below 30MHz and above 18GHz, it was the floor noise.
6. New battery was used during tests.
7. This is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

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## 6.5 Test result

### A Fundamental & Harmonics Radiated Emission Data

Product:	“Sky Cub” 2.4GHz RC Plane	Test Mode:	Keep transmitting-Low Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	DC6.0V	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
2402	93.58 (PK)/ 82.15 (AV)	H	114/94	-20.42/-11.85
2402	92.66 (PK)/ 81.53 (AV)	V	114/94	-21.34/-12.47
4804	49.17 (PK)	H	74/54	-4.83
4804	49.69 (PK)	V	74/54	-4.31
7206	--	H/V	74/54	--
9608	--	H/V	74/54	--
12010	--	H/V	74/54	--
14412	--	H/V	74/54	--
16814	--	H/V	74/54	--
19216	--	H/V	74/54	--
21618	--	H/V	74/54	--
24020	--	H/V	74/54	--

Note: (1) PK= Peak, AV= Average

(2) Emission Level = Reading Level + Antenna Factor + Cable Loss - Pre-Amplifier

(3) Margin=Emission-Limits

(4) According to section 15.35(b), the peak limit is 20dB higher than the average limit

(5) For test purpose, keep EUT continuous transmitting

(6) The PK emission level less than the AV limit. No necessary to record the AV emission level.

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Product:	“Sky Cub” 2.4GHz RC Plane	Test Mode:	Keep transmitting-Middle Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	DC6.0V	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
2440	97.77 (PK)/ 86.32 (AV)	H	114/94	-20.23/-7.68
2440	93.24 (PK)/ 81.89 (AV)	V	114/94	-20.76/-12.11
4880	50.27 (PK)	H	74/54	-3.73
4880	49.61 (PK)	V	74/54	-4.39
7320	--	H/V	74/54	--
9760	--	H/V	74/54	--
12200	--	H/V	74/54	--
14640	--	H/V	74/54	--
17080	--	H/V	74/54	--
19520	--	H/V	74/54	--
21960	--	H/V	74/54	--
24400	--	H/V	74/54	--

Note:

- (1) PK= Peak, AV= Average
- (2) Emission Level = Reading Level + Antenna Factor + Cable Loss - Pre-Amplifier
- (3) Margin=Emission-Limits
- (4) According to section 15.35(b), the peak limit is 20dB higher than the average limit
- (5) For test purpose, keep EUT continuous transmitting
- (6) The PK emission level less than the AV limit. No necessary to record the AV emission level.

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Product:	“Sky Cub” 2.4GHz RC Plane	Test Mode:	Keep transmitting-High Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	DC6.0V	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
2479	95.84 (PK)/ 84.51 (AV)	H	114/94	-18.16/-9.49
2479	92.11 (PK)/ 80.93(AV)	V	114/94	-21.89/-13.07
4958	49.88 (PK)	H	74/54	-4.12
4958	50.32 (PK)	V	74/54	-3.68
7437	--	H	74/54	--
7437	--	V	74/54	--
9916	--	H/V	74/54	--
12395	--	H/V	74/54	--
14874	--	H/V	74/54	--
17353	--	H/V	74/54	--
19832	--	H/V	74/54	--
22311	--	H/V	74/54	--
24790	--	H/V	74/54	--

Note:

- (1) PK= Peak, AV= Average
- (2) Emission Level = Reading Level + Antenna Factor + Cable Loss - Pre-Amplifier
- (3) Margin=Emission-Limits
- (4) According to section 15.35(b), the peak limit is 20dB higher than the average limit
- (5) For test purpose, keep EUT continuous transmitting
- (6) The PK emission level less than the AV limit. No necessary to record the AV emission level.

The report refers only to the sample tested and does not apply to the bulk.

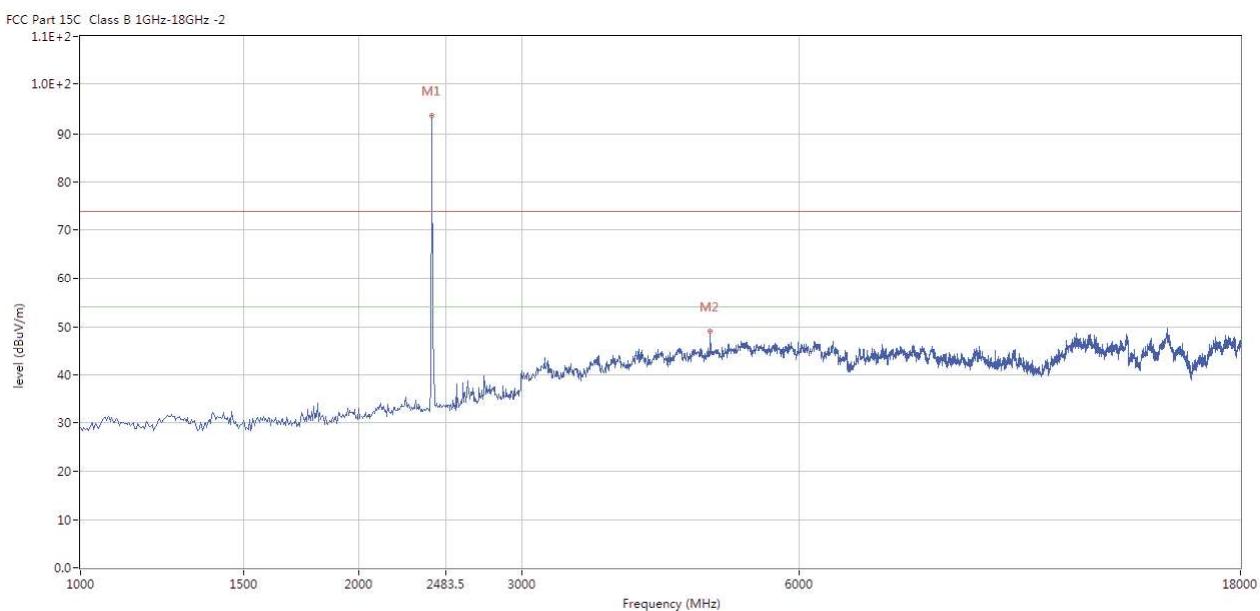
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Please refer to the following test plots for details: Low Channel

### Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402.500	93.58	-3.57	114.0	-20.42	Peak	296.00	100	Horizontal	Pass
1*	2402.500	82.15	-3.57	94.0	-11.85	AV	296.00	100	Horizontal	Pass
2	4803.750	49.17	3.13	74.0	-24.83	Peak	285.00	100	Horizontal	Pass

The report refers only to the sample tested and does not apply to the bulk.

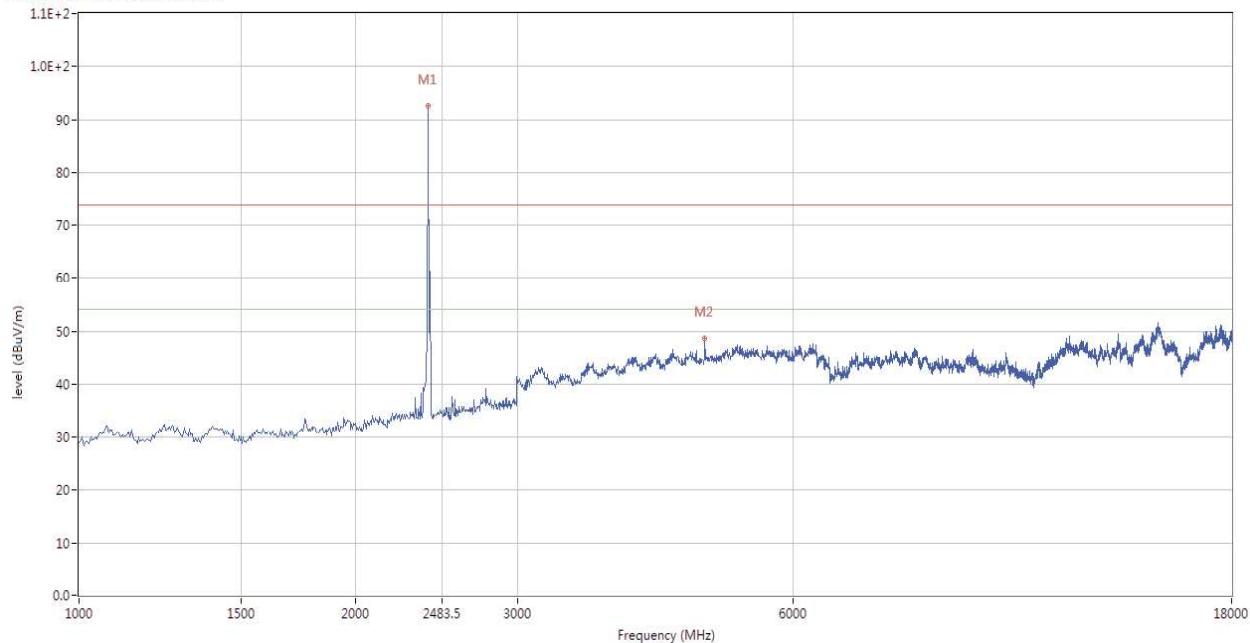
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## Vertical

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402.500	92.66	-3.57	114.0	-21.34	Peak	239.00	100	Vertical	Pass
1*	2402.500	81.53	-3.57	94.0	-12.47	AV	239.00	100	Vertical	Pass
2	4803.750	49.69	3.13	74.0	-24.31	Peak	51.00	100	Vertical	Pass

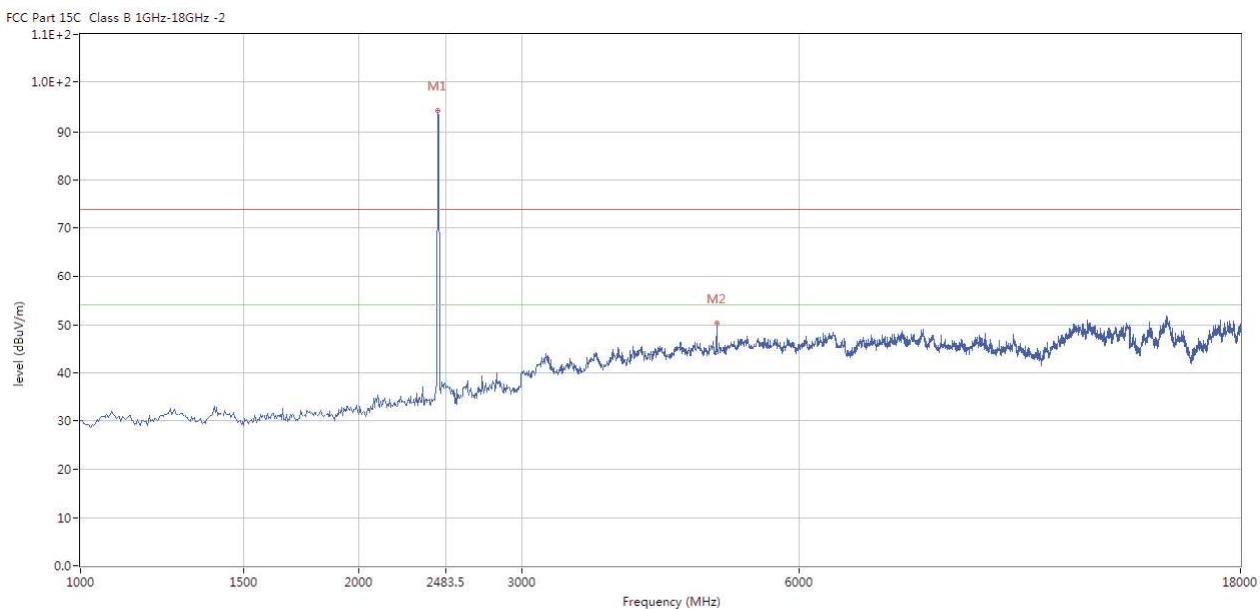
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Please refer to the following test plots for details: Middle Channel  
**Horizontal**



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2440.500	97.77	-3.57	114.0	-16.23	Peak	121.00	100	Horizontal	Pass
1*	2440.500	86.32	-3.57	94.0	-7.68	AV	121.00	100	Horizontal	Pass
2	4880.250	50.27	3.20	74.0	-23.73	Peak	109.00	100	Horizontal	Pass

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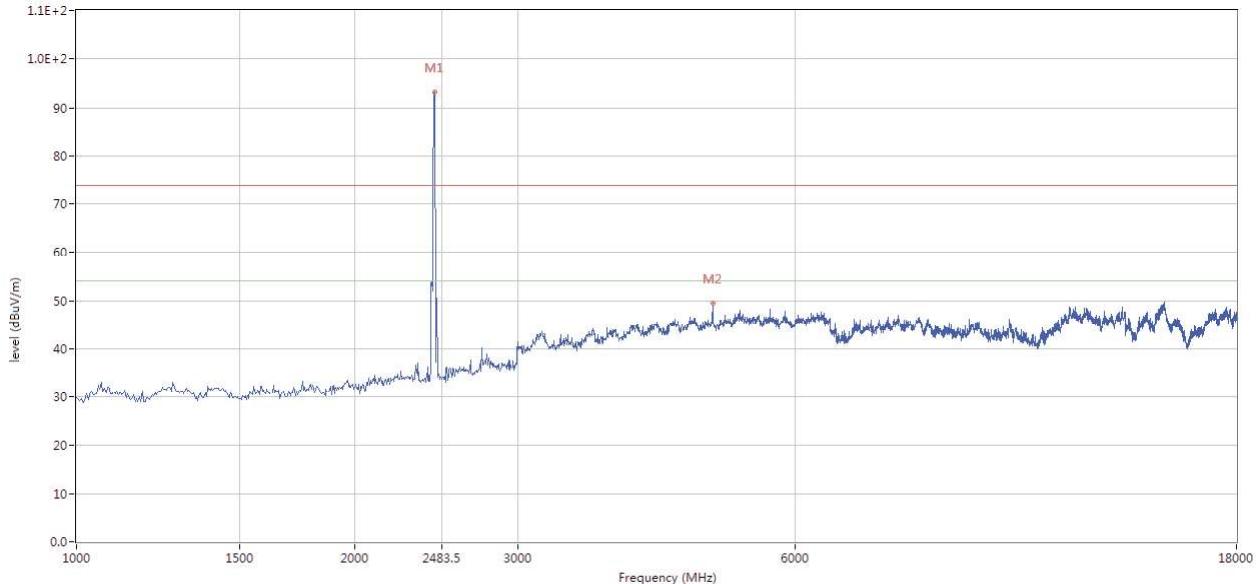
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## Vertical

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2440.750	93.24	-3.57	114.0	-20.76	Peak	151.00	100	Vertical	Pass
1*	2440.750	81.89	-3.57	94.0	-12.11	AV	151.00	100	Vertical	Pass
2	4880.250	49.61	3.20	74.0	-14.39	Peak	276.00	100	Vertical	Pass

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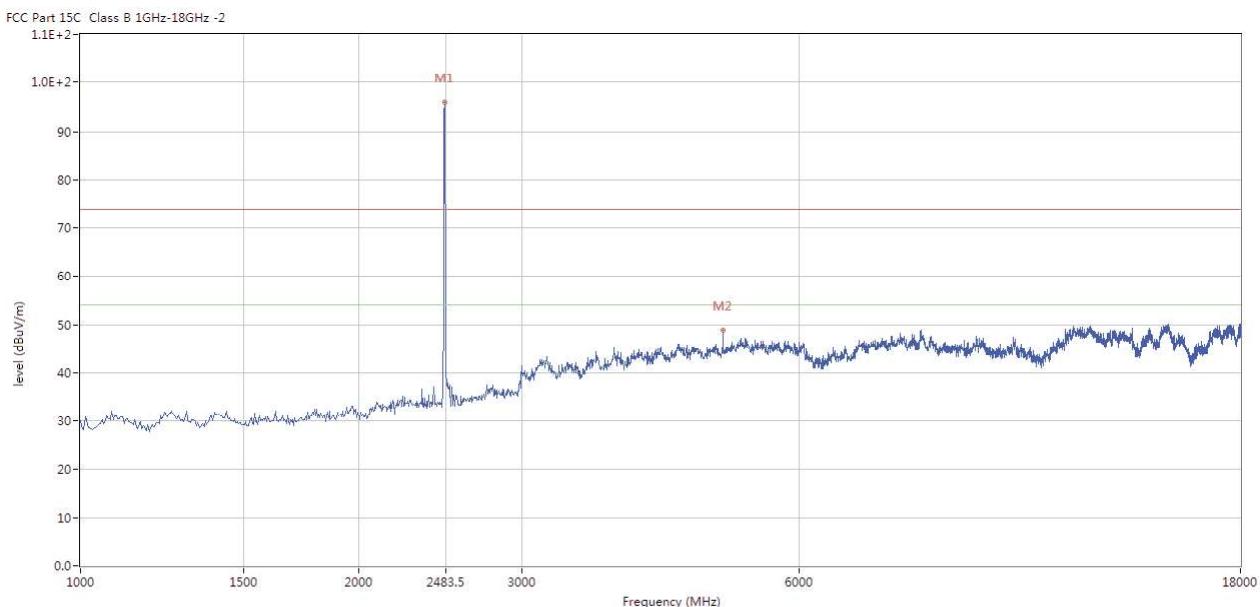
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Please refer to the following test plots for details: High Channel

**Horizontal**



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2479.000	95.84	-3.57	114.0	-18.16	Peak	108.00	100	Horizontal	Pass
1*	2479.000	84.51	-3.57	94.0	-9.49	AV	108.00	100	Horizontal	Pass
2	4956.750	49.88	3.35	74.0	-24.12	Peak	108.00	100	Horizontal	Pass

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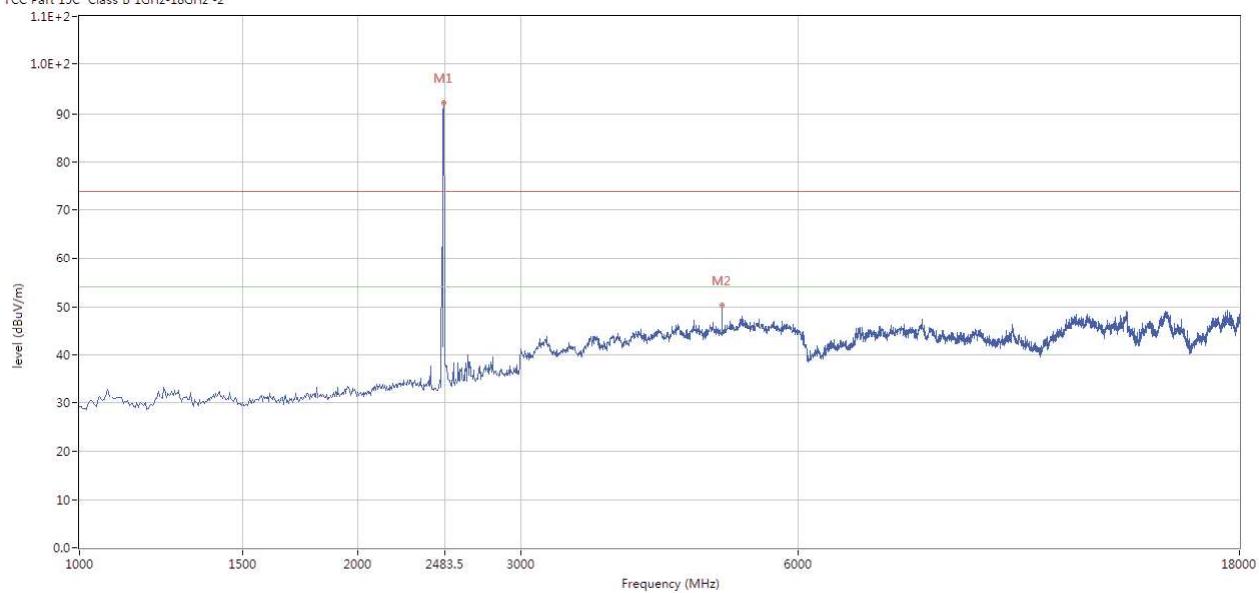
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## Vertical

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2479.000	92.11	-3.57	114.0	-21.89	Peak	286.00	100	Vertical	Pass
1*	2479.000	80.93	-3.57	94.0	-13.07	AV	286.00	100	Vertical	Pass
2	4956.750	50.32	3.35	74.0	-23.68	Peak	94.00	100	Vertical	Pass

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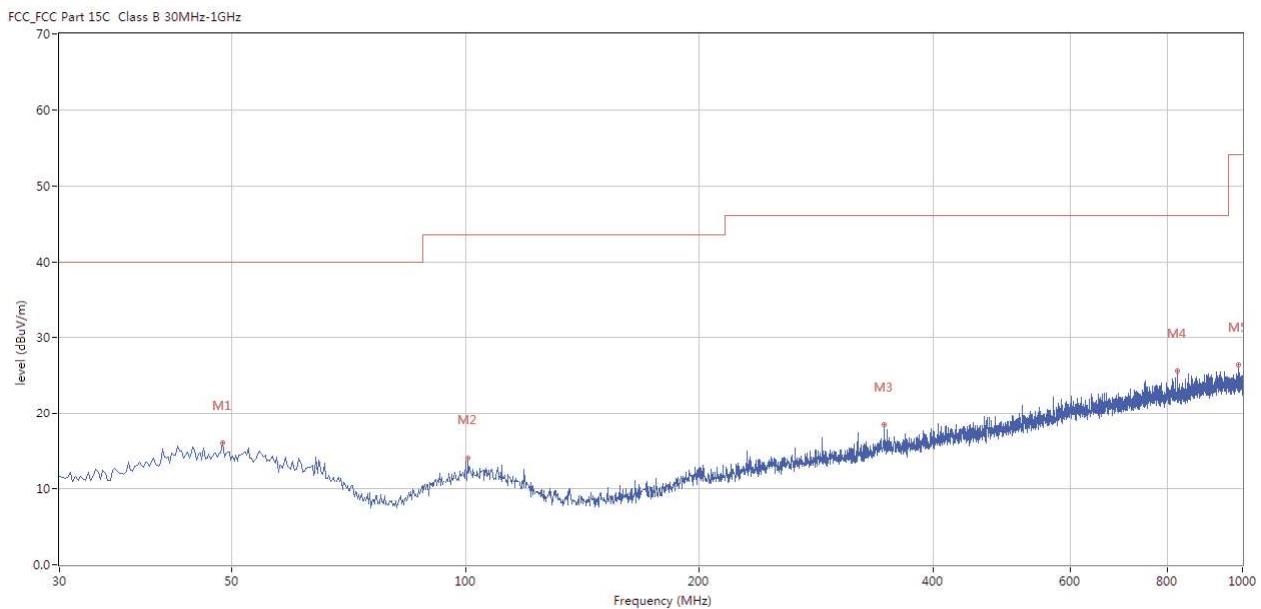
## B. General Radiated Emission Data

### Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	48.668	16.14	-11.22	40.0	-23.86	Peak	0.00	200	Horizontal	Pass
2	100.792	14.14	-13.46	43.5	-29.36	Peak	26.00	100	Horizontal	Pass
3	345.656	18.41	-9.50	46.0	-27.59	Peak	257.00	100	Horizontal	Pass
4	825.444	25.60	-2.94	46.0	-20.40	Peak	321.00	100	Horizontal	Pass
5	988.848	26.35	-1.39	54.0	-27.65	Peak	317.00	100	Horizontal	Pass

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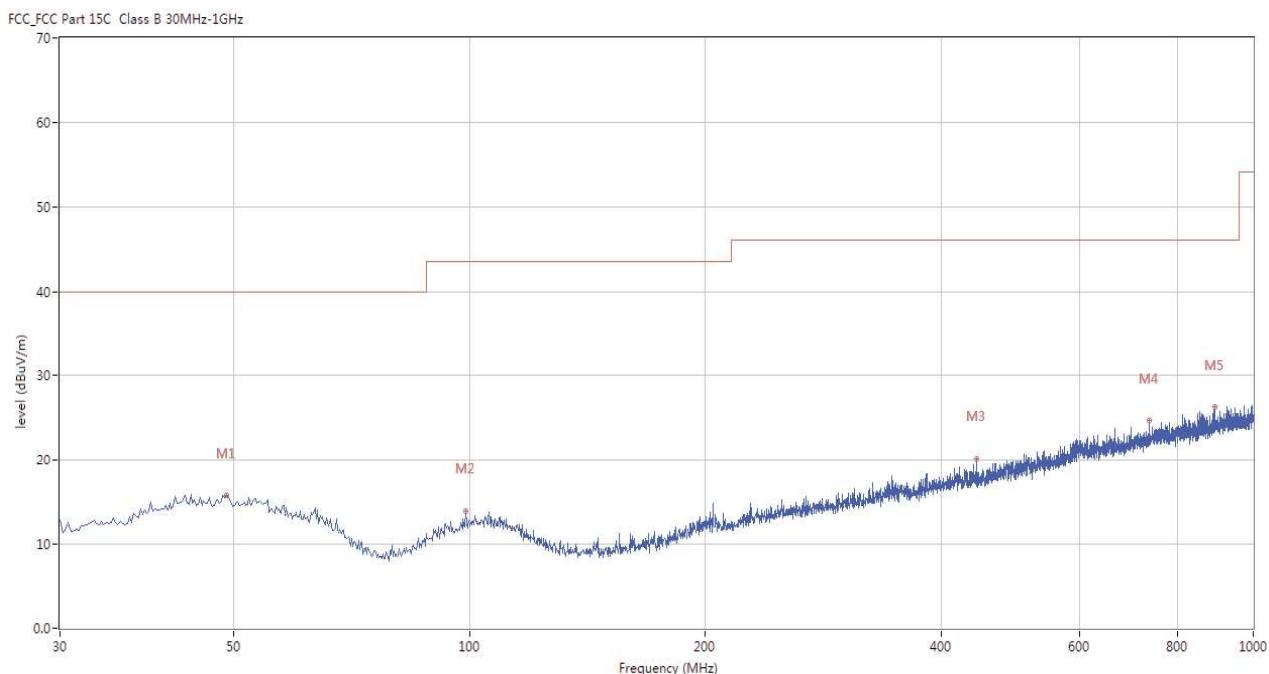


### Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	48.910	15.84	-11.21	40.0	-24.16	Peak	345.00	100	Vertical	Pass
2	98.853	13.96	-13.68	43.5	-29.54	Peak	181.00	100	Vertical	Pass
3	443.359	20.15	-7.93	46.0	-25.85	Peak	20.00	100	Vertical	Pass
4	737.438	24.68	-3.59	46.0	-21.32	Peak	267.00	100	Vertical	Pass
5	894.054	26.23	-1.88	46.0	-19.77	Peak	360.00	100	Vertical	Pass

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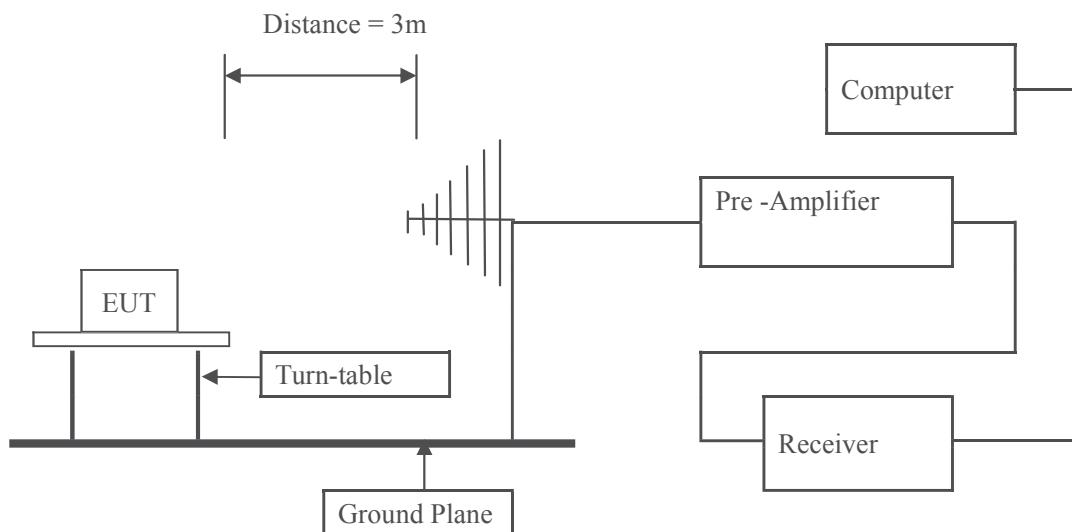


## 7. Band Edge

### 7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10–2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) Set Spectrum as RBW=3MHz, VBW=10MHz and Peak detector used
- (3) The antenna height is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

### 7.2 Radiated Test Setup



For the actual test configuration , please refer to the related items – Photos of Testing

### 7.3 Configuration of The EUT

Same as section 5.3 of this report

### 7.4 EUT Operating Condition

Same as section 5.4 of this report.

### 7.5 Band Edge Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

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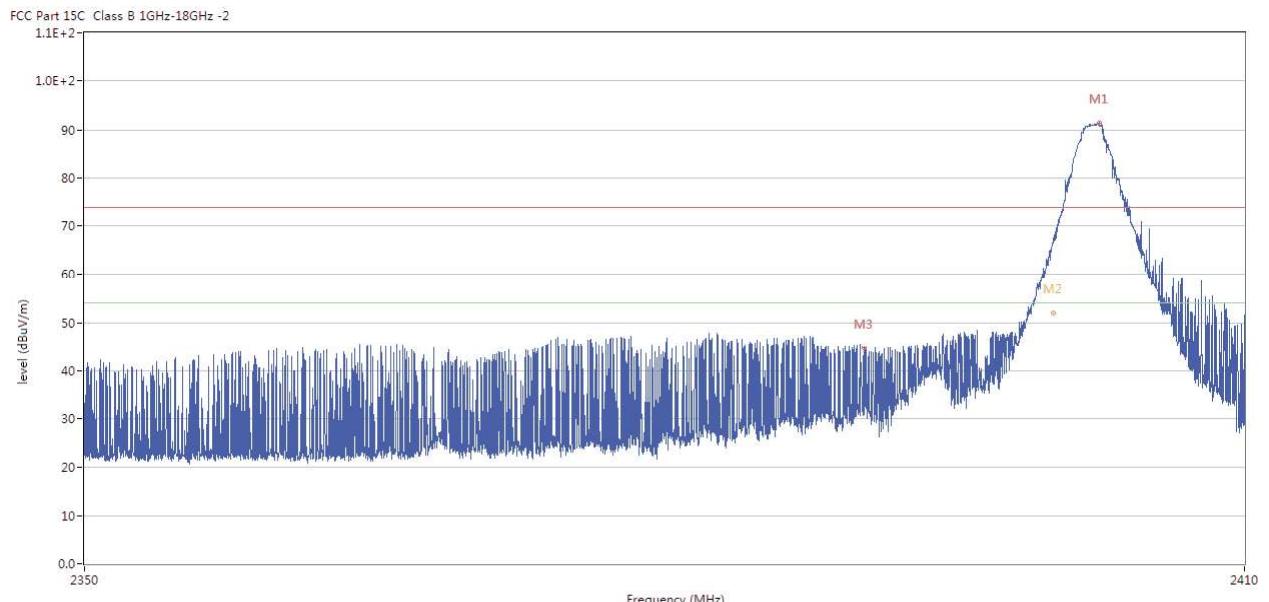
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## 7.6 Test Result

Product:	“Sky Cub” 2.4GHz RC Plane	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC6.0V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
2	2400.010	65.58	-3.57	74.0	-8.42	Peak	248.00	100	Horizontal	Pass
2**	2400.010	52.07	-3.57	54.0	-1.93	AV	248.00	100	Horizontal	Pass
3	2390.155	45.71	-3.53	74.0	-28.29	Peak	243.00	100	Horizontal	Pass

Note: The PK emission level less than the AV limit. No necessary to record the AV emission level.

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Product:	“Sky Cub” 2.4GHz RC Plane		Detector	Vertical																																																																			
Mode	Keeping Transmitting		Test Voltage	DC6.0V																																																																			
Temperature	24 deg. C,		Humidity	56% RH																																																																			
Test Result:	Pass		--	--																																																																			
<table border="1"> <thead> <tr> <th>No.</th> <th>Frequency (MHz)</th> <th>Results (dBuV/m)</th> <th>Factor (dB)</th> <th>Limit (dBuV/m)</th> <th>Over Limit (dB)</th> <th>Detector</th> <th>Table (o)</th> <th>Height (cm)</th> <th>ANT</th> <th>Verdict</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>2400.025</td> <td>65.90</td> <td>-3.57</td> <td>74.0</td> <td>-8.10</td> <td>Peak</td> <td>358.00</td> <td>100</td> <td>Vertical</td> <td>Pass</td> </tr> <tr> <td>2**</td> <td>2400.025</td> <td>50.76</td> <td>-3.57</td> <td>54.0</td> <td>-3.24</td> <td>AV</td> <td>358.00</td> <td>100</td> <td>Vertical</td> <td>Pass</td> </tr> <tr> <td>3</td> <td>2390.785</td> <td>44.10</td> <td>-3.53</td> <td>74.0</td> <td>-29.90</td> <td>Peak</td> <td>314.00</td> <td>100</td> <td>Vertical</td> <td>Pass</td> </tr> <tr> <td colspan="6"> </td><td colspan="5"></td></tr> <tr> <td colspan="6"> </td><td colspan="5"></td></tr> </tbody> </table>						No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict	2	2400.025	65.90	-3.57	74.0	-8.10	Peak	358.00	100	Vertical	Pass	2**	2400.025	50.76	-3.57	54.0	-3.24	AV	358.00	100	Vertical	Pass	3	2390.785	44.10	-3.53	74.0	-29.90	Peak	314.00	100	Vertical	Pass																						
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2**	2400.025	50.76	-3.57	54.0	-3.24	AV	358.00	100	Vertical	Pass																																																													
3	2390.785	44.10	-3.53	74.0	-29.90	Peak	314.00	100	Vertical	Pass																																																													

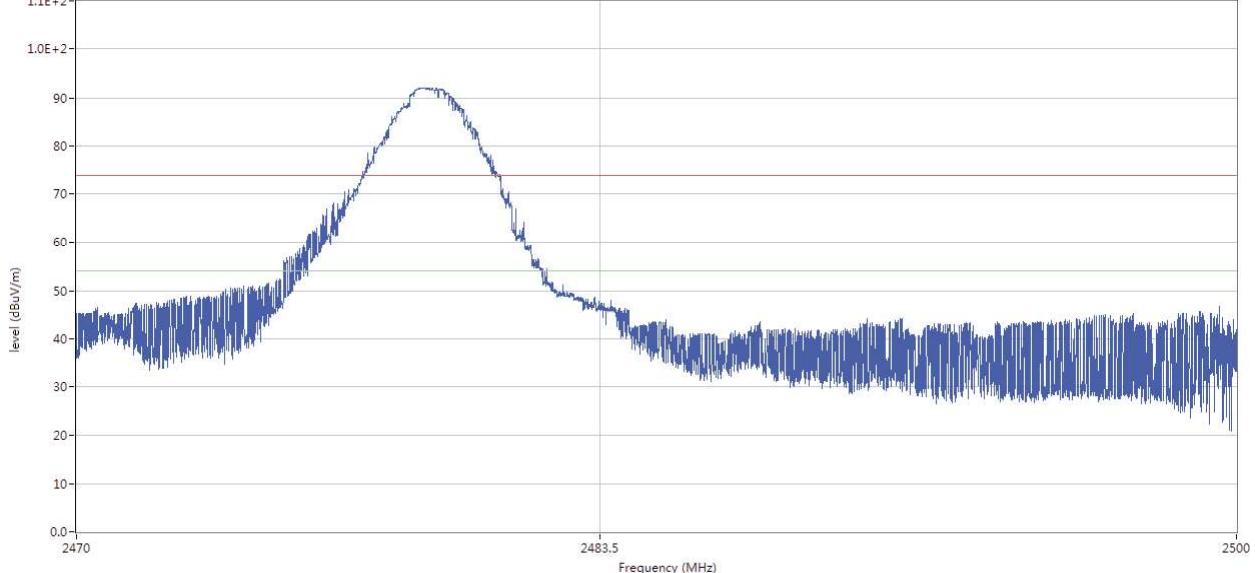
Note: The PK emission level less than the AV limit. No necessary to record the AV emission level.

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Product:	“Sky Cub” 2.4GHz RC Plane		Polarity	Horizontal						
Mode	Keeping Transmitting		Test Voltage	DC6.0V						
Temperature	24 deg. C,		Humidity	56% RH						
Test Result:	Pass		--	--						
FCC Part 15C Class B 1GHz-18GHz -2										
										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
2	2483.582	48.26	-3.57	74.0	-25.74	Peak	236.00	100	Horizontal	Pass

Note: The PK emission level less than the AV limit. No necessary to record the AV emission level.

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Product:	"Sky Cub" 2.4GHz RC Plane		Detector	Vertical						
Mode	Keeping Transmitting		Test Voltage	DC6.0V						
Temperature	24 deg. C,		Humidity	56% RH						
Test Result:	Pass		--	--						
FCC Part 15C Class B 1GHz-18GHz -2										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
2	2483.515	47.89	-3.57	74.0	-26.11	Peak	88.00	100	Vertical	Pass

Note: The PK emission level less than the AV limit. No necessary to record the AV emission level.

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## 8.0 Antenna Requirement

### Applicable Standard

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

This product has a dipole antenna. The antenna gain is 0dBi Max. It fulfills the requirement of this section.

Test Result: Pass

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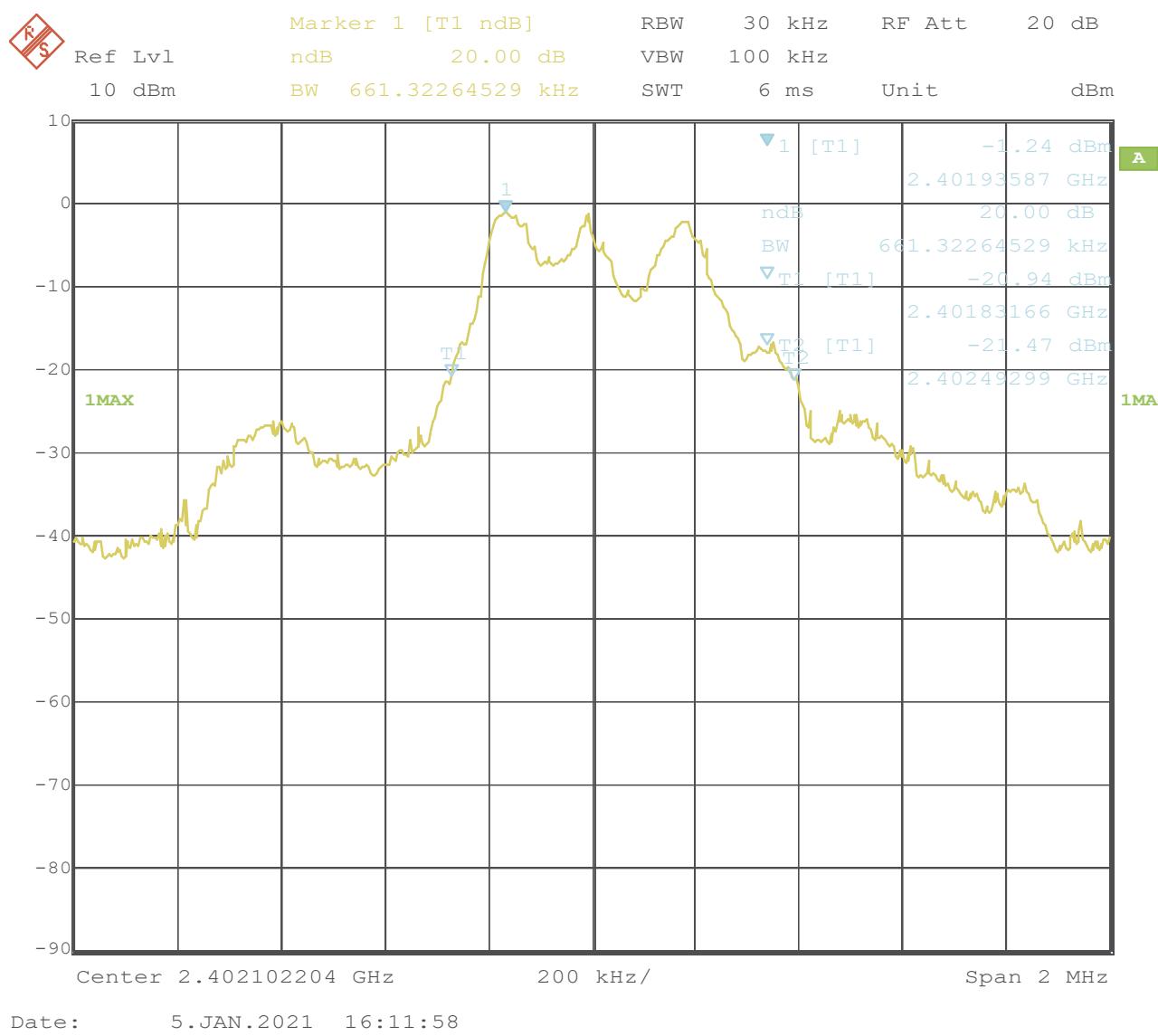
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## 9.0 20dB Bandwidth Measurement

Product:	“Sky Cub” 2.4GHz RC Plane	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC6.0V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	661kHz	--	--



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Product:	“Sky Cub” 2.4GHz RC Plane		Test Mode:	Keep transmitting					
Mode	Keeping Transmitting		Test Voltage	DC6.0V					
Temperature	24 deg. C,		Humidity	56% RH					
Test Result:	Pass		Detector	PK					
20dB Bandwidth	581kHz		--	--					
<span style="display: inline-block; vertical-align: middle; margin-left: 10px;">Ref Lvl</span> <span style="display: inline-block; vertical-align: middle; margin-left: 10px;">Marker 1 [T1 ndB]</span> <span style="display: inline-block; vertical-align: middle; margin-left: 10px;">RBW 30 kHz</span> <span style="display: inline-block; vertical-align: middle; margin-left: 10px;">RF Att 20 dB</span>									
<span style="display: inline-block; vertical-align: middle; margin-left: 10px;">dB</span> <span style="display: inline-block; vertical-align: middle; margin-left: 10px;">20.00 dB</span> <span style="display: inline-block; vertical-align: middle; margin-left: 10px;">VBW 100 kHz</span> <span style="display: inline-block; vertical-align: middle; margin-left: 10px;">Unit</span> <span style="display: inline-block; vertical-align: middle; margin-left: 10px;">dBm</span>									
<span style="display: inline-block; vertical-align: middle; margin-left: 10px;">10 dBm</span> <span style="display: inline-block; vertical-align: middle; margin-left: 10px;">BW 581.16232465 kHz</span> <span style="display: inline-block; vertical-align: middle; margin-left: 10px;">SWT 6 ms</span> <span style="display: inline-block; vertical-align: middle; margin-left: 10px;">A</span>									
<span style="display: inline-block; vertical-align: middle; margin-left: 10px;">1MAX</span> <span style="display: inline-block; vertical-align: middle; margin-left: 10px;">1MA</span>									
<span style="display: inline-block; vertical-align: middle; margin-left: 10px;">Center 2.440094188 GHz</span> <span style="display: inline-block; vertical-align: middle; margin-left: 10px;">200 kHz/</span> <span style="display: inline-block; vertical-align: middle; margin-left: 10px;">Span 2 MHz</span>									
<span style="display: inline-block; vertical-align: middle; margin-left: 10px;">Date: 5.JAN.2021 16:21:22</span>									

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Product:	“Sky Cub” 2.4GHz RC Plane		Test Mode:	Keep transmitting					
Mode	Keeping Transmitting		Test Voltage	DC6.0V					
Temperature	24 deg. C,		Humidity	56% RH					
Test Result:	Pass		Detector	PK					
20dB Bandwidth	625kHz		--	--					
<span style="display: inline-block; vertical-align: middle; margin-left: 10px;">Ref Lvl</span> <span style="display: inline-block; vertical-align: middle; margin-left: 10px;">Marker 1 [T1 ndB]</span> <span style="display: inline-block; vertical-align: middle; margin-left: 10px;">RBW 30 kHz</span> <span style="display: inline-block; vertical-align: middle; margin-left: 10px;">RF Att 20 dB</span>									
<span style="display: inline-block; vertical-align: middle; margin-left: 10px;">dB</span> <span style="display: inline-block; vertical-align: middle; margin-left: 10px;">20.00 dB</span> <span style="display: inline-block; vertical-align: middle; margin-left: 10px;">VBW 100 kHz</span> <span style="display: inline-block; vertical-align: middle; margin-left: 10px;">Unit dBm</span>									
<span style="display: inline-block; vertical-align: middle; margin-left: 10px;">10 dBm</span> <span style="display: inline-block; vertical-align: middle; margin-left: 10px;">BW 625.25050100 kHz</span> <span style="display: inline-block; vertical-align: middle; margin-left: 10px;">SWT 6 ms</span> <span style="display: inline-block; vertical-align: middle; margin-left: 10px;">A</span>									
<span style="display: inline-block; vertical-align: middle; margin-left: 10px;">1MAX</span> <span style="display: inline-block; vertical-align: middle; margin-left: 10px;">1MA</span>									
<span style="display: inline-block; vertical-align: middle; margin-left: 10px;">Center 2.479098196 GHz</span> <span style="display: inline-block; vertical-align: middle; margin-left: 10px;">200 kHz/</span> <span style="display: inline-block; vertical-align: middle; margin-left: 10px;">Span 2 MHz</span>									
<span style="display: inline-block; vertical-align: middle; margin-left: 10px;">Date: 5.JAN.2021 15:59:09</span>									

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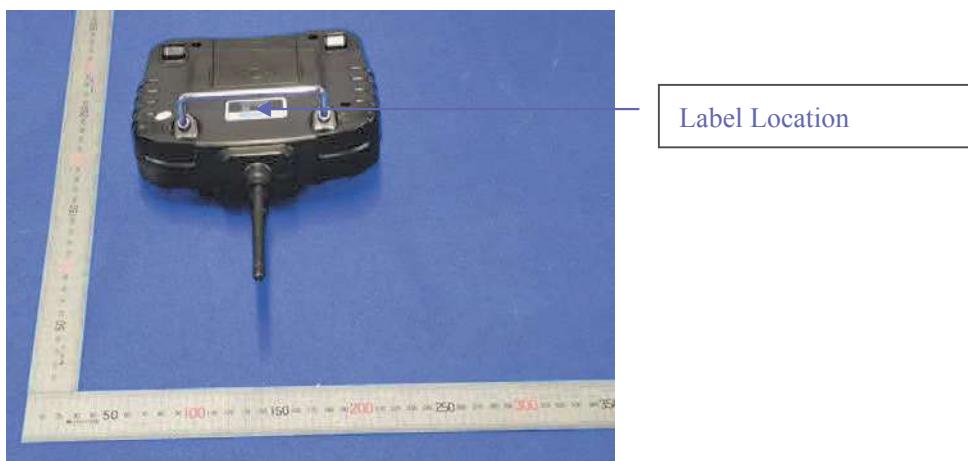
## 10.0 FCC ID Label

### FCC ID: OJPXA0471

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

#### Mark Location:



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## 11.0 Photo of testing

### 11.1 Radiated emission test view



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## 11.2 Photographs – EUT

Outside View



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Outside View



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Outside View



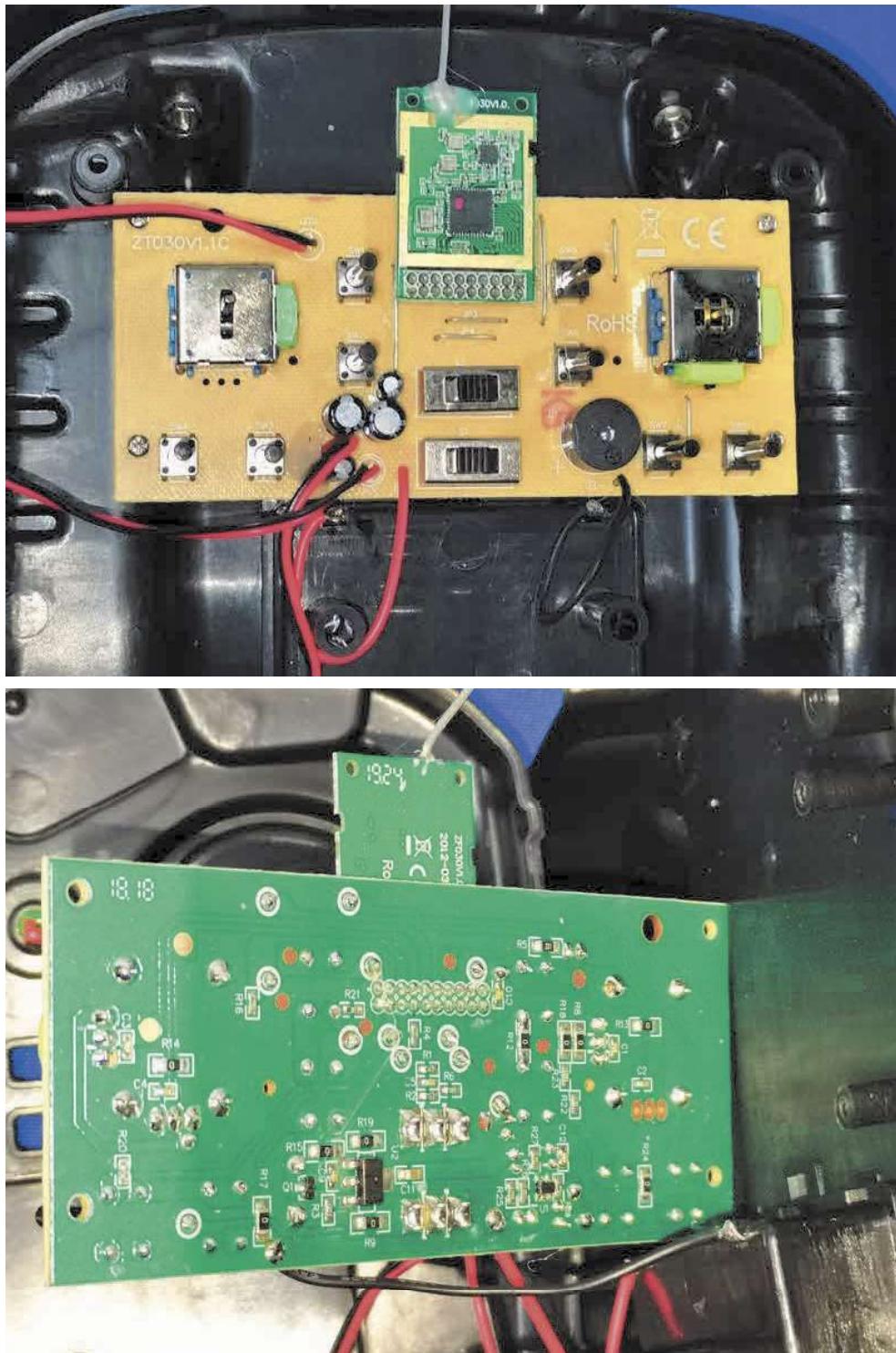
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Inside view



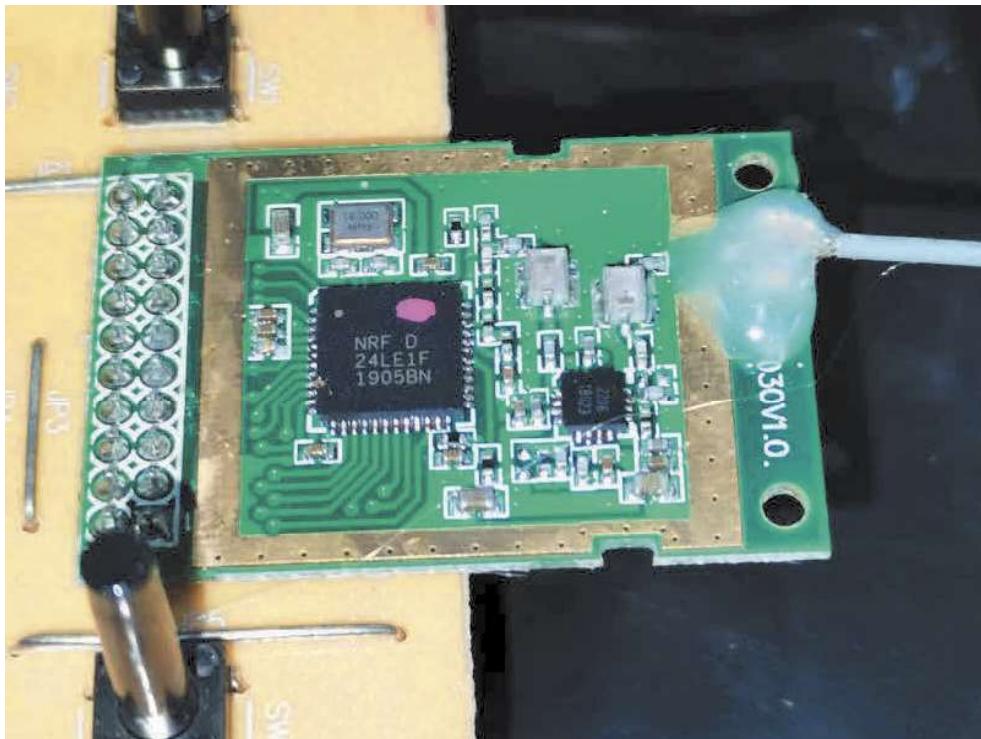
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Inside view



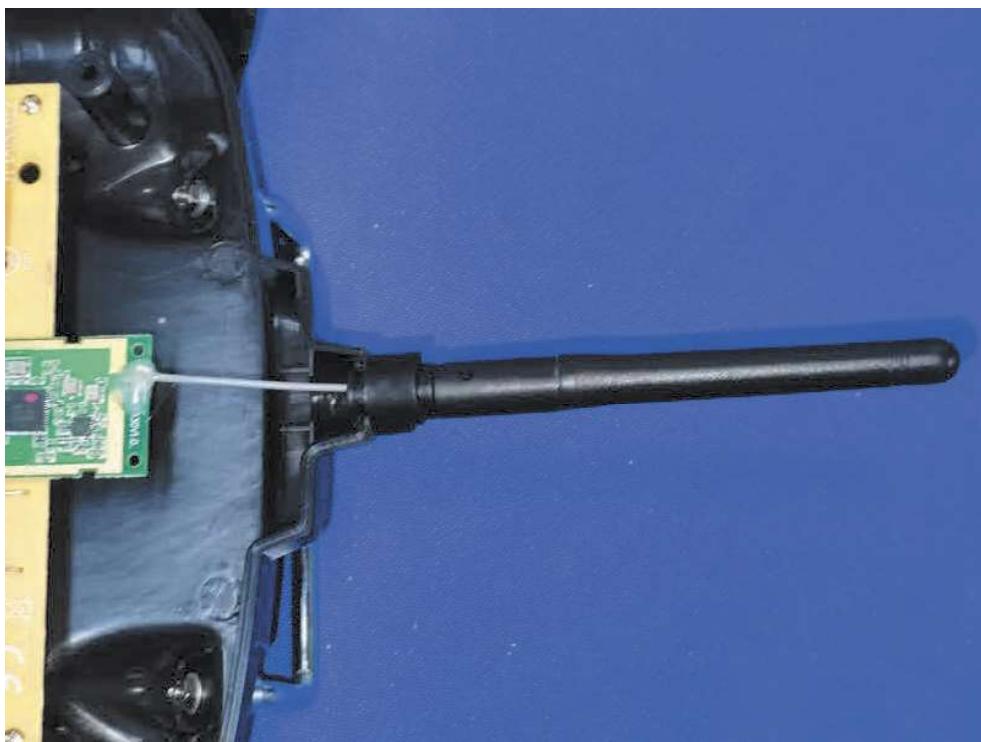
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Inside view



**--End of the report--**

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